

CONFIDENTIAL

September 17, 1959

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Destructor Systems,
File*

Dear Sir:

For the record, we are presenting here the information which we recently gave you over the phone in answer to your three specific questions regarding the incinerator which you are evaluating and in regard to the cost of motor-blower units:

- (1) What is the life expectancy of the present stack?

We estimate that the stainless steel section will last as long as the incinerator. The 16-gage mild-steel section may have to be replaced at the end of approximately one year, since corrosion occurs on the inside surface of the stack.

- (2) What is the height of stack required?

Because the present unit is blower operated, stack draft is not required. Therefore, the height of the stack used depends only on the need for avoiding dust (fly ash) difficulties in the area immediately adjacent to the incinerator installation. If the incinerator were installed on the third or fourth floor of a seven-story building, the stack should extend to the top of the building.

- (3) Is this an "all weather" stack on the present unit?

This stack will operate satisfactorily in all types of weather. However, we feel that the phrase "all weather"

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most aptly refers to the type of construction and, consequently, is applicable to a brick- or refractory-lined stack, rather than to an unlined mild-steel stack.

The Buffalo Forge Company, the source for the electric-motor and blower unit which is part of the incinerator with which you are working, has quoted on the cost of such a unit in lots of 10 and 50. This unit is identified as a #25 MW Industrial Exhauster, Arrangement 4, complete with 7-1/2-hp, 3,500-rpm, 3-phase, open, drip-proof motor, foot mounted on mounting base, that will handle 2,400 cfm at 1" SP. The quoted cost of a single unit in lots of 10 is \$367, and in lots of 50, \$333. We have paid approximately \$410 for an individual unit. Incidentally, the above prices are f.o.b. factory, Buffalo, New York, with freight allowed to freight station nearest destination.

We have also been investigating the cost of a flange-mounted motor bolted directly to the side of the fan housing. As yet, we have not received prices on this special motor, but have been told that the cost would probably not result in any increase beyond the prices indicated above. The advantages of using such a special motor would probably be lower weight and smaller volume.

In your consideration of the costs of the entire incinerator unit, you will also want to include the cost of a starter for the motor-blower unit. We paid approximately \$75 for an individual starter.

We are currently assembling and selecting the names of British and European manufacturers of centrifugal blowers. As soon as we have finished this "look see", we shall pass the information on to you.

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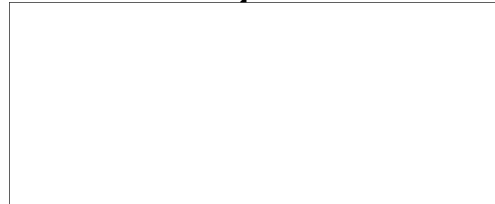
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Also, in accord with your recent request, we are enclosing three additional sets of working drawings of the incinerator. These are the same as the drawings transmitted to you in our letter of August 5, 1959.

If you have need for any additional information, please don't hesitate to call on us.

Sincerely,



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In Duplicate

My personal feelings are that these people () are doing a terrific job on this and are to be highly commended.

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